

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 999 518 A (NATTKEMPER DIETER H ET AL) 7 December 1999 (1999-12-07) figures 1-8,10,12 column 4, lines 22-39 column 7, lines 60-67 column 10, lines 20-67 column 11, lines 17-21 column 14, lines 56-64 column 19, lines 60-67 column 21, lines 14-29 column 25, lines 58-67 column 50, lines 66,67 column 51, lines 1-6 column 52, lines 31-61 column 53, lines 61-67 column 54, lines 1-4 ----- -/--	1-25

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed Invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed Invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
11 October 2004	18/10/2004
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Mircescu, A

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 314 103 B1 (MEDHAT KHALID MOHAMED ET AL) 6 November 2001 (2001-11-06) figures 2,3,5 column 6, lines 40-67 column 7, lines 1-19 column 10, lines 12-24 column 11, lines 39-60 column 18, lines 60-67 column 19, lines 1-13,44-54 -----	1-25
A	US 5 905 715 A (CORLEY STEPHEN LESLIE ET AL) 18 May 1999 (1999-05-18) figures 2,6,7,13,17,18,20 column 1, lines 1-35 column 4, lines 1-21 column 6, lines 58-67 column 7, lines 1-13 column 9, lines 31-67 column 10, lines 1-28 -----	1-25

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5999518	A	07-12-1999	US	6754206 B1		22-06-2004
			AU	7627798 A		29-06-1998
			CA	2273997 A1		11-06-1998
			EP	0944976 A2		29-09-1999
			WO	9825382 A2		11-06-1998
			US	5953318 A		14-09-1999
US 6314103	B1	06-11-2001	US	6081525 A		27-06-2000
			US	5825780 A		20-10-1998
			US	5991301 A		23-11-1999
			US	6181703 B1		30-01-2001
			US	6631133 B1		07-10-2003
			US	2002039372 A1		04-04-2002
			US	2002089986 A1		11-07-2002
			US	6104718 A		15-08-2000
			US	6212193 B1		03-04-2001
			US	6643282 B1		04-11-2003
			US	6185219 B1		06-02-2001
			US	6304572 B1		16-10-2001
			US	6366586 B1		02-04-2002
			US	6192052 B1		20-02-2001
			US	6424652 B1		23-07-2002
			US	6108341 A		22-08-2000
			US	6463052 B1		08-10-2002
			US	6201812 B1		13-03-2001
			US	6208660 B1		27-03-2001
			US	2003016665 A1		23-01-2003
			US	6411624 B1		25-06-2002
			US	6349100 B1		19-02-2002
			US	2001053154 A1		20-12-2001
			US	6304580 B1		16-10-2001
			US	6563828 B1		13-05-2003
			US	6449280 B1		10-09-2002
			US	6452932 B1		17-09-2002
			US	2004037328 A1		26-02-2004
			US	2004090973 A1		13-05-2004
			US	6031840 A		29-02-2000
			AU	698671 B2		05-11-1998
			AU	6912696 A		27-03-1997
			AU	700308 B2		24-12-1998
			AU	6912896 A		27-03-1997
			BR	9610391 A		06-07-1999
			BR	9610473 A		29-06-1999
			CA	2231202 A1		13-03-1997
			CA	2231228 A1		13-03-1997
			CN	1198863 A , B		11-11-1998
			CN	1199526 A		18-11-1998
			CZ	9800686 A3		17-02-1999
			CZ	9800687 A3		17-02-1999
			EP	0848876 A1		24-06-1998
			EP	0848874 A1		24-06-1998
			HK	1016778 A1		29-08-2003
			HU	9802233 A2		28-01-1999
			HU	9901766 A2		28-09-1999
			JP	11512575 T		26-10-1999
			JP	11512576 T		26-10-1999
			JP	2003163677 A		06-06-2003

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 5905715	A	18-05-1999	AU 709932 B2	09-09-1999
			AU 3393595 A	22-03-1996
			CA 2198885 A1	07-03-1996
			DE 69516010 D1	04-05-2000
			DE 69516010 T2	02-11-2000
			EP 0786187 A1	30-07-1997
			FI 970849 A	25-04-1997
			WO 9607281 A1	07-03-1996
			HK 1001652 A1	08-12-2000
			JP 10504949 T	12-05-1998
			NO 970943 A	28-04-1997
			NZ 292213 A	26-05-1997